PATENT COOPERATION TREATY

REC'D 1 5 NOV 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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|---|--|--|--|--|
| pplicant's or agent's file reference DS:BR:FP20820 | FOR FURTHER ACTION | See Form PCT/IPEA/416 | | |
| nternational application No. 'CT/AU2004/001712 | International filing date (day/month/year) 3 December 2004 | Priority date (day/month/year) 4 December 2003 | | |
| aternational Patent Classification (IPC) or | national classification and IPC | | | |
| nt. Cl. ⁷ A62D 3/00, A61L 9/014 | | | | |
| pplicant | | | | |
| UNISEARCH LIMITED et al | | | | |
| • | ÷ | | | |
| This report is the international prelimin | nary examination report, established by this | International Preliminary Examining | | |
| Authority under Article 35 and transmi | itted to the applicant according to Article 36 | | | |
| . This REPORT consists of a total of 3 | sheets, including this cover sheet. | | | |
| . This report is also accompanied by AN | NEXES, comprising: | | | |
| a. (sent to the applicant and to the | ne International Bureau) a total of sheets, | as follows: | | |
| sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). | | | | |
| sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. | | | | |
| a sequence listing and/or table | eau only) a total of (indicate type and number related thereto, in computer readable form (see Section 802 of the Administrative Instr | only, as indicated in the Supplemental Box | | |
| I. This report contains indications relations | | | | |
| X Box No. I Basis of the rep | ort | | | |
| Box No. II Priority | | • | | |
| Box No. III Non-establishm | ent of opinion with regard to novelty, inven | tive step and industrial applicability | | |
| Box No. IV Lack of unity of | • | | | |
| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | |
| Box No. VI Certain docume | ents cited | | | |
| Box No. VII Certain defects | in the international application | | | |
| Box No. VIII Certain observa | ations on the international application | | | |
| Date of submission of the demand | Date of completion | on of the report | | |
| 30 September 2005 | 31 October 2003 | 4 NIIV 200E | | |
| Name and mailing address of the IPEA/AU | Authorized Officer | | | |
| AUSTRALIAN PATENT OFFICE | | | | |
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001712

| Box | No. I Basis of the report | | | |
|-----|---|--|--|--|
| ί. | With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. | | | |
| | This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: | | | |
| | international search (under Rules 12.3 and 23.1 (b)) | | | |
| | publication of the international application (under Rule 12.4) | | | |
| | international preliminary examination (under Rules 55.2 and/or 55.3) | | | |
| 2. | With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not unnexed to this report): | | | |
| | X the international application as originally filed/furnished | | | |
| | the description: | | | |
| | pages as originally filed/furnished | | | |
| | pages* received by this Authority on with the letter of | | | |
| | pages* received by this Authority on with the letter of | | | |
| | the claims: | | | |
| | pages as originally filed/furnished pages* as amended (together with any statement) under Article 19 | | | |
| | | | | |
| | pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of | | | |
| • | the drawings: | | | |
| | 11 Ct 1/Ct 1/2-1 | | | |
| | pages as originally filed/furnished pages* received by this Authority on with the letter of | | | |
| | pages* received by this Authority on with the letter of | | | |
| | a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. | | | |
| 3. | The amendments have resulted in the cancellation of: | | | |
| | the description, pages | | | |
| | the claims, Nos. | | | |
| | the drawings, sheets/figs | | | |
| | land | | | |
| | the sequence listing (specify): | | | |
| | any table(s) related to the sequence listing (specify): | | | |
| 4. | This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(a)) | | | |
| | 70.2(c)). | | | |
| | the description, pages | | | |
| | the claims, Nos. | | | |
| | `the drawings, sheets/figs | | | |
| • | the sequence listing (specify): | | | |
| | any table(s) related to the sequence listing (specify): | | | |
| * | If item 4 applies, some or all of those sheets may be marked "superseded." | | | |



International application No.

PCT/AU2004/001712

Box No. V Reasoned statement under Article.35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| 1. | Statement |
|----|-----------|
| | Statement |
| | |

| | | • |
|-------------------------------|----------------------|-----|
| Novelty (N) | Claims 1-19 | YES |
| | Claims | NO |
| Inventive step (IS) | Claims 1-19 | YES |
| • | Claims | NO |
| Industrial applicability (IA) | ity (IA) Claims 1-19 | YES |
| | Claims | NO |

2. Citations and explanations (Rule 70.7)

D1 US 2003/0134409

NOVELTY (N) Claims 1-19

D1 teaches (and discloses the prior use of) zero valent metals for the treating contaminated soils and represents the state of the art.

None of the prior art documents disclose a method of <u>aerobically</u> treating contaminated solid surfaces with zero valent metals in order to produce hydroxyl radicals.

INVENTIVE STEP (IS) Claims 1-19

The prior art teaches the use of zero valent metals to treat contaminated soils and aquifers in reductive environments that do not have significant oxygen content and thus teaches away from the aerobic treatments of the current invention.